



10 30 50  
CACGAGATTTTCATGAGCATCCTCCTCTAAACGCGTGTCAAGACAAAAGATGCTTCAGCTT  
M L Q L

70 90 110  
TGGAACCTTGTTCTCCTGTGCGGCGTGCTCACTGGGACCTCAGAGTCTCTTCTTGACAAT  
W K L V L L C G V L T G T S E S L L D N

130 150 170  
CTTGGAATGACCTAAGCAATGTCGTGGATAAGCTGGAACCTGTTCTTCAAGAGGGACTT  
L G N D L S N V V D K L E P V L H E G L

190 210 230  
GAGACAGTTGACAATACTCTTAAAGGCATCCTTGAGAACTGAAGGTCGACCTAGGAGTG  
E T V D N T L K G I L E K L K V D L G V

250 270 290  
CTTCAGAAATCCAGTGCTTGGCAACTGGCCAAGCAGAAGGCCAGGAAGCTGAGAAATTG  
L Q K S S A W Q L A K Q K A Q E A E K L

310 330 350  
CTGAACAATGTCATTTCTAAGCTGCTTCCAATAACACGGACATTTTTGGGTTGAAAATC  
L N N V I S K L L P T N T D I F G L K I

370 390 410  
AGCAACTCCCTCATCCTGGATGTCAAAGCTGAACCGATCGATGATGGCAAAGGCCTTAAC  
S N S L I L D V K A E P I D D G K G L **N**

430 450 470  
CTGAGCTTCCCTGTCACCGCGAATGTCCTGTGGCCGGGCCATCATTGGCCAGATTATC  
**L S F P V T A N V T V A G P I I G Q I I**

490 510 530  
AACCTGAAAGCCTCCTTGGACCTCCTGACCGCAGTCACAATTGAAACTGATCCCCAGACA  
N L K A S L D L L T A V T I E T D P Q T

**FIG. 1A**



550 570 590  
CACCAGCCTGTTGCCGTCCTGGGAGAATGCGCCAGTGACCCAACCAGCATCTCACTTTCC  
H Q P V A V L G E C A S D P T S I S L S

610 630 650  
TTGCTGGACAAACACAGCCAAATCATCAACAAGTTTCGTGAATAGCGTGATCAACACGCTG  
L L D K H S Q I I N K F V N S V I N T L

670 690 710  
AAAAGCACTGTATCCTCCCTGCTGCAGAAGGAGATATGTCCACTGATCCGCATCTTCATC  
K S T V S S L L Q K E I C P L I R I F I

730 750 770  
CACTCCCTGGATGTGAATGTCATTCAGCAGGTCGTCGATAATCCTCAGCACAAAACCCAG  
H S L D V N V I Q Q V V D N P Q H K T Q

790 810 830  
CTGCAAACCCCTCATTTGAAGAGGACGAATGAGGAGGACCACTGTGGTGATGCTGATTGG  
L Q T L I \*

850 870 890  
TTCCCAGTGGCTTGCCCCACCCCCTTATAGCATCTCCCTCCAGGAAGCTGCTGCCACCAC

910 930 950  
CTAACCAGCGTGAAAGCCTGAGTCCCACCAGAAGGACCTTCCCAGATACCCCTTCTCCTC

970 990 1010  
ACAGTCAGAACAGCAGCCTCTACACATGTTGTCCTGCCCCTGGCAATAAAGGCCCATTTT

TGCAAAAA

**FIG. 1B**



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O.G. FIG.		SUBCLASS
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	1		50
moPSP	MFQLGSLVVL	CGLLIGNSES	LLGELGSAVN N..... ..LKILNPP
ratPSP	MFQLGSLVVL	CGLLIGTSES	LLGDVANAVN N..... ..LDILNSP
ratSMGA	MFQLGSLVVL	CGLLIGTSGS	LFD..... ..
HPSP	MLQLWKLVLL	CGVLTGTSES	LLDNLGNDLS. NVVDKLEPVL HEGLETVDNT
	51		100
moPSP	SEAVPQNLNL	DVELLQQATS	WPLAKNSILE TLNTADLGNL KSFTSLNGLL
ratPSP	SEAVAQNLNL	DVGSLLQATT	WPSAKDSILE TLNKVELGNS NGFTPLNGLL
ratSMGA	...IFQNP	EL DVESV.....	WSEINYRIRY ALETMDLML ADYLSKRGIE
HPSP	LKGILEKLKV	DLGVLQKSSA	WQLAKQKAQE AEKLLNNVIS KLLPTNTDIF
	101		150
moPSP	.LKINNLKVL	DFQAKLSSNG	NGIDLTVPLA GEASLVLPFI GKTVDISVSL
ratPSP	.LRVNKFRVL	DLQAGLSSNG	KDIDLKLPLV FEISFSLPVI GPTLDVAVSL
ratSMGA	.LKIKDLRIL	NLNHEVSPNG	DEVTLKMPMA LNASLSLPA R DLTDDVSISM
HPSP	GLKISNSLIL	DVKAEPIDDG	KGLNLSFPVT ANVTVAGPII GQIINLKASL
	151		200
moPSP	DLINLSIKT	NAQTGLPEVT	IGKCSSNTDK ISISLLGRRL PIINSILDGV
ratPSP	DLNLSVSVQT	NAQTGLPGVT	LGKCSGNTDK ISISLLGRRL PFVNRILDGV
ratSMGA	EAITSF AIEK	DPKTGRRVLN	MQRCSLNTDN TSISLLNRKS NEVNLALDSA
HPSP	DLTAVTIET	DPQTHQPVAV	LGEASDPTS ISLSLLDKHS QIINKFVNSV
	201		250
moPSP	STLLTSTLST	VLQNFLCPLL	QYVLS.TLNP SVLQGLLSNL LAGQVQLAL.
ratPSP	SGLLTGAVSI	LLQNILCPVL	QYLLS.TMSG SAIQGLLSNV LTGQLAVPL.
ratSMGA	LYLIKRG LTL	PVRRQLCPVL	QLIISNTFHP DEISNPQTAI ST.....
HPSP	INTLKSTVSS	LLQKEICPLI	R.IFIHSLDV NVIQQVVDNP QHKTQLQTLI

FIG. 2



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BY	CLASS	SUBCLASS
DRAFTSMAN		

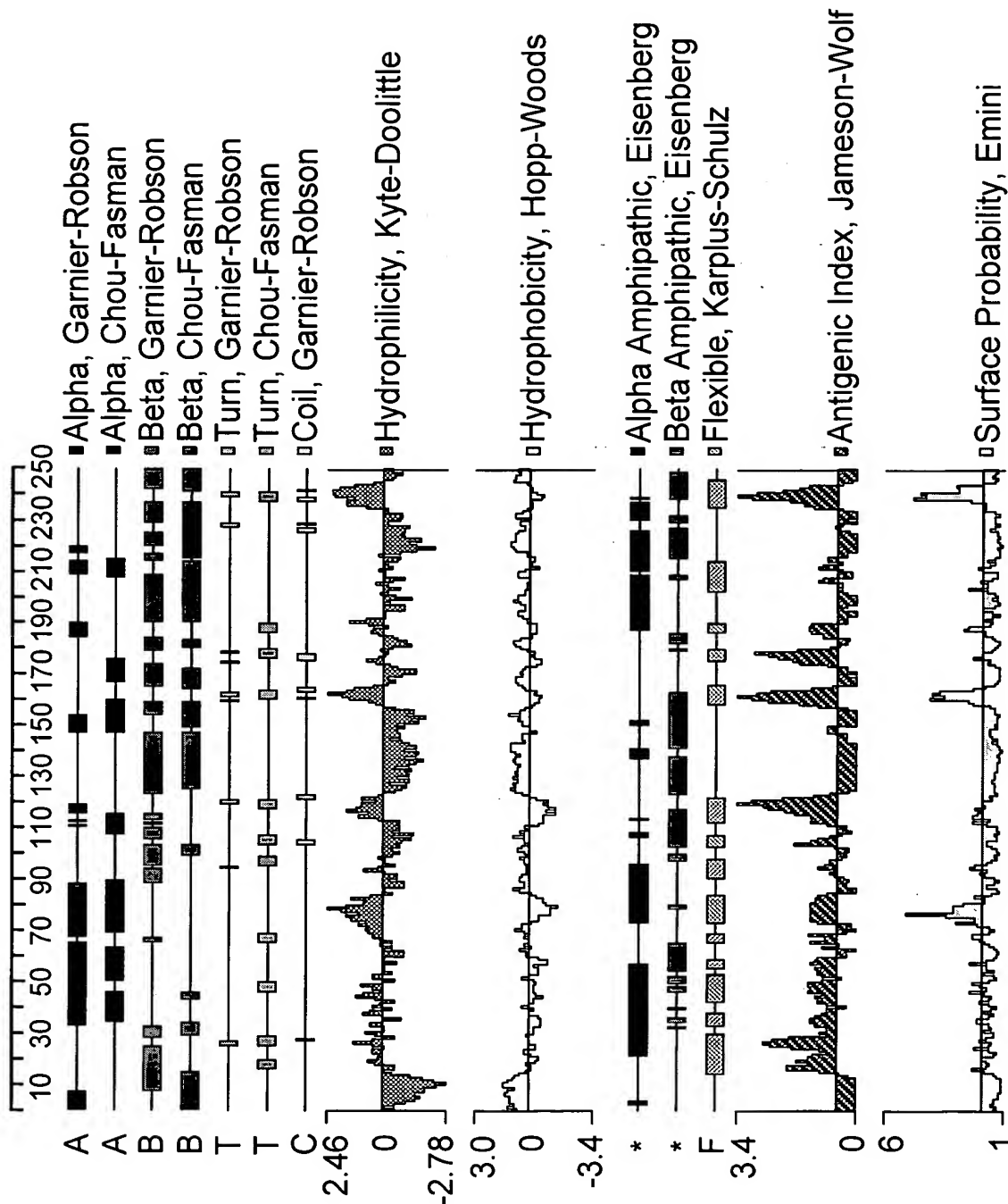


FIG.3